Smart iCopter™
User Guide

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Special Notice

Note: Attempting to fly the helicopter without completely reading the manual may cause injury to yourself and people in the vicinity, as well as damage to the helicopter.

The Smart iCopter is not a toy! If misused, it can cause serious bodily harm and damage to property. Fly only in open areas indoors following all instructions.

Keep items that can get entangled in the rotor blades away from the main and tail blades, including loose clothing, pencils and screwdrivers. Especially keep your hands away from the rotor blades.

Not recommended to be flown on carpeted surface. Recommended to fly on flat hard surface for optimum sensor detection.

Additional Safety Precautions and Warnings

This model is controlled by a Bluetooth signal that is subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is advisable to always keep a safe distance in all directions around your model, as this margin will help to avoid collisions or injury.

- Never operate your model with low battery or damaged / broken rotor blades.
- Always operate your model in an open area away from people.
- Keep all chemicals, small parts and anything electrical out of the reach of children.
- Moisture causes damage to electronics . Avoid water exposure to all equipment not specifically designed and protected for this purpose.
- Never lick or place any portion of your model in your mouth as it could cause serious injury or even death.

Note: These checklists are not intended to be a replacement for the content included in this instruction manual . Although they can be used as a quick start guide, we strongly suggest reading through this manual completely before proceeding .

Introduction

Smart iCopter™ is a Smart iOS Accessory for use with iPod touch®, iPhone® or iPad®, featuring the Easy-Fly™ One Touch flying experience with user-friendly controls and much more.

Lift Off
One touch, lift off and hover automatically.

E-Land
One touch to land automatically.

Altitude Slider
Adjustable slider for height control.

Accelerometer
Control using your iPod touch, iPhone or iPad.

Bluetooth®
Bluetooth® enabled helicopter with no adapter required.

Trim
Re-calibrate your Smart iCopter.

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Overview

Ever thought how a pilot feels flying a Copter? Or did you ever try flying the traditional RC Control Copter but gave up?

The Smart iCopter features unique Easy-Fly and gyroscope technology for the smoothest, most stable flight experience ever. Authentic, detailed styling adds to the fun of flying like a Pro.

The following accessories come together in the box when you purchase your Smart iCopter:

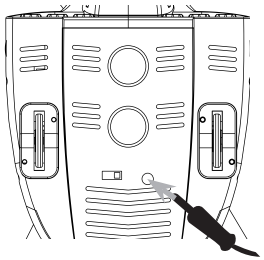
Smart iCopter

2x Extra Main Rotor Blades
1x Extra Tail Rotor Blade

USB Charging Cable

User Manual

Battery Charging and Care



Please ensure that you have adequately charged your chopper before flying by using the USB Cable included in your Smart iCopter box. First, make sure the Smart iCopter is turned off. The ON/OFF switch is located next to the Charging Socket on the bottom of the Smart iCopter. Then, plug the USB Cable into the Charging Socket. Plug the other end of the USB Cable into your Mac, PC or a 5V charger to charge. If done properly, a red light will appear on the front of your chopper. This same light will turn blue once the chopper is fully charged and ready for flight. At that point, disconnect the USB Cable from the chopper and from your computer. PLEASE NOTE: Requires approximately 60 minutes charge for a full 6 minute flight.

Long Lasting Satisfaction

Engineered with a longer flight time consideration, the Smart iCopter comes with a built-in Lithium Polymer (LiPo) Rechargeable Battery.

Warning: Lithium Ion or Lithium Polymer Rechargeable Battery Inside (No Lithium Metal). Risk of explosion if battery is replaced with an incorrect type. Don't open or puncture the batterry, short circuit, or expose to fire, high temperatures, or water. Keep battery out of reach of children.

- Li-Po batteries are significantly more volatile than the Alkaline, Ni-Cd or Ni-MH batteries used in RC applications. All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury, and/or property damage.
- By handling, charging or using the included Li-Po battery you assume

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all risks associated with lithium batteries. If you do not agree with these conditions, return your complete Smart iCopter model in new, unused condition to the place of purchase immediately.

- You must charge the included Li-Po battery in a safe area away from flammable materials.
- Never charge the battery unattended. When charging the battery you should always remain in constant observation to monitor the charging process and react to potential problems that may occur.
- After flight, the battery must be cooled to ambient temperature before charging .
- DO NOT USE A Ni-Cd or Ni-MH CHARGER. Failure to charge the battery with a compatible 5V charger may cause fire resulting in personal injury and/or property damage.

Bluetooth Enabled RC Helicopter

The Easy-Fly Smart iCopter will be flown entirely via Bluetooth with No Additional Adapter required. The Smart iCopter has a built-in Class II Bluetooth that allows the chopper to soar through the air with an approximate flight radius of 33 feet (10 meters).

Note: This model is controlled by a Bluetooth signal that is subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is advisable to always keep a safe distance in all directions around your model, as this margin will help to avoid collisions or injury.

Bluetooth Pairing

Pairing successful!

Bluetooth Pairing

Before attempting to fly your Smart iCopter, please ensure that you pair via Bluetooth.

Turn on your Smart iCopter. On your Device, go to Settings > General > Bluetooth > and switch it to the "ON" position.

Once the Bluetooth locates the chopper "Smart iCopter" will appear in the Devices field. If it shows as "Not Paired" simply tap on the "Not Paired" to activate. If done properly, it will read as "Connected"

Please note that Bluetooth uses a lot of your iPod touch, iPhone or iPad battery power. Be sure to turn off Bluetooth when you are not using it to conserve battery power.

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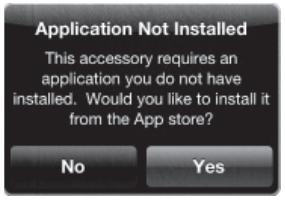
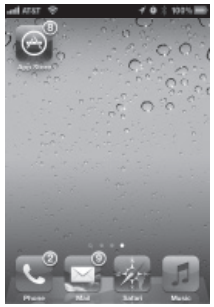
Smart iCopter App Download

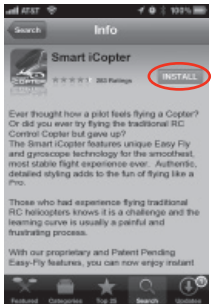
Upon successfully pairing your Smart iCopter with your device for the first time, you will be prompted to download the free Smart iCopter App. Tap Yes to connect to the iTunes Store and download the App.


Application Not Installed
This accessory requires an application you do not have installed. Would you like to install it from the App store?
No
Yes

Alternatively you can download the Smart iCopter App manually through the App Store or entering the following URL on your internet browser http://itunes.apple.com/my/app/smart-icopter/id463689548?mt=8



Visit the App Store



Download

Launch & Enjoy!

Understanding the App Menu

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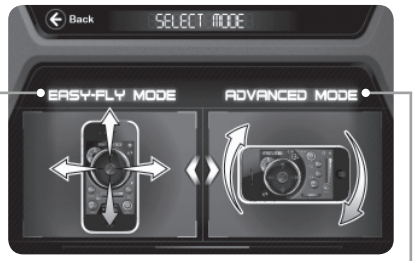
Play Mode

Easy-Fly Mode - One Touch Experience

When we designed the Smart iCopter series, we wanted to make flying an enjoyable fun-tastic experience for you.

With the Easy-Fly feature, the Smart iCopter series is the first in the world to introduce the One Touch approach to flying this class of RC Copter.



Advanced Mode

In the Advanced Manual Control mode, you will be able to further take control of your Smart iCopter, while retaining key Easy-Fly features.

Advanced Manual Control mode tries to emulate the feel of having to control Pitch, Throttle and Rudder steering of a helicopter with both hands.

Smart iCopter App Quick Guide

Accelerometer
Activates Motion Control Mode where your device becomes the controller. Icon will light up when triggered.

Controls
Multi-directional JoyPad.

Exit
Back to main page.

Settings
Goes to Settings page.

Battery
Battery indicator.

Bluetooth
Indicator lights up when connection is established.

Search Light
Turns on front headlights.

Nav. Lights
Turns on the blinking lights.

Altitude
Adjustable slider.

Ignition
Press and hold for 2 seconds until main rotor rotates.

Lift Off/ E-Land
Press to lift off/ land and auto hover at 3.9 feet (1.2 meters). Press again to land.

Height Indicator
Displays current height.

Trim
Corrects drifts or erratic rotation. Move the trim sliders in the opposite direction of drift.

Hover
Hovers Smart iCopter at 3.2 feet (1.0 meters).
(Applicable only in Advanced Mode)

Advanced Mode - Horizontal view

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Drive Mode

The Smart iCopter comes with the ability to be driven on the ground. Use the Drive Mode to familiarize yourself on directional controls of the Smart iCopter before taking to the air.

Ignition

Press and hold "Ignition" button until rotor blades start to turn. Use the directional control to Drive your Smart iCopter on the ground. Use Altitude slider to increase power during drive mode. Press and hold Engine Stop to stop.

Only drive the Smart iCopter on a flat solid surface. Wheels may get caught on carpeted floor or cause the Smart iCopter to be off balanced.

Engine Stop

Ready, Set, Lift Off ...

Once you are comfortable with the directional controls, with a single touch of the Easy-Fly One Touch "Lift Off and Auto Hover" feature, launch your Smart iCopter into the air.

Lift Off

Press "Lift Off" button to take off. In Easy-Fly mode, the height is preset between 2.6 - 3.9 feet (0.8 - 1.2 meter). Press Land button to land your Smart iCopter.

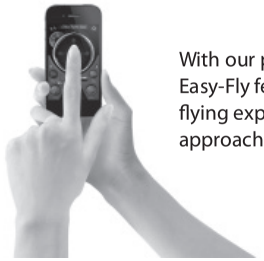
Recommended to fly on flat solid surface to avoid erratic flight. Soft or carpeted surface may interfere with height sensor signal.

During Lift Off please note that your Smart iCopter will tilt in unexpected direction due to turbulence, ground effects or outside interference, compensate by gently pulling the controls in the opposite direction.

Land

Easy-Fly; One-Touch Simplicity Flying

Those who had experience flying traditional RC helicopters know it is a challenge and the learning curve is usually a painful and frustrating process.



With our proprietary and Patent Pending Easy-Fly features, you can now enjoy instant flying experience with our One Touch approach to flying.

Altitude Slider

In-Flight Adjustable slider

In Easy-Fly mode, the height is preset between 2.6 - 3.9 feet (0.8 - 1.2 meter) for optimum sensor detection

Please note that your Smart iCopter uses on board sound sensor to detect surface to height changes, i.e. flying over table or other furniture, and it will auto correct its altitude accordingly.

Trim (Rudder)

Should your helicopter begin to drift in a certain direction or spin erratically, you will need to adjust your trim to regain control. In order to trim your chopper, move the Trim Dial in the opposite direction that your helicopter is drifting/spinning.

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Easy One-Gesture Landing

Mayday! Mayday!

Easy One-Gesture Landing allows you to land and ignition off the Smart iCopter by flipping your controller Device faceside down without needing you to press any button.

Please ensure that the Orientation Lock on your Device is turned off for this feature to work.

Easy-Fly Auto Call Assist

The Easy-Fly feature comes with an Auto Call Assist which is applicable for iPhone users only.

The Easy-Fly Auto Call Assist will activate when you receive an incoming call while flying your Smart iCopter. The Smart iCopter will auto land and shut off so that you can receive your call without having to bother about your Smart iCopter flying off unattended.

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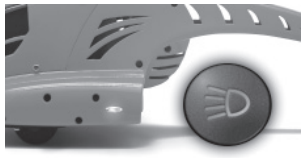
Auxiliary Controls

Search Light

Activates lights located on the front of the Smart iCopter, to perform like search lights.



Navigation Light

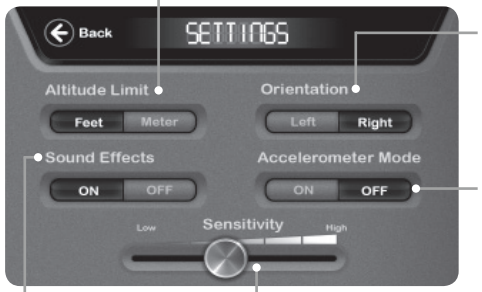
Turns on the blinking lights located on both sides of the Smart iCopter.

Battery Indicator

Indicator shows the status of the battery for your Smart iCopter.

Settings Menu

Unit Measurement Settings
Choose between the Metric or Imperial system to monitor your Altitude.



Orientation
Toggle to switch main controls for Left or Right handed use.

Accelerometer
Toggle your Accelerometer mode to be turned "On or Off" automatically.

Sound Effects
Toggle in-App sound effects during flight.

Sensitivity
Controls the sensitivity of the controller in Accelerometer mode.

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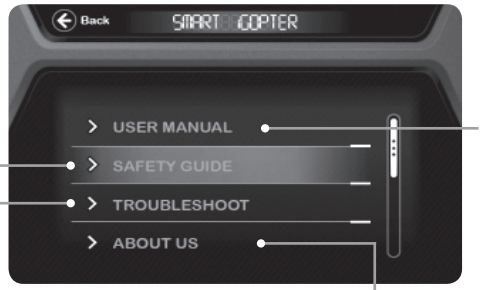
Help Menu

Safety Guidelines

Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage to your Easy-Fly Smart iCopter or other property.



In-App User Manual

Please read thoroughly before attempting to fly the Smart iCopter.

Troubleshoot

A quick guide to solving your problems.

About Us

Safety Guidelines

The Smart iCopter is NOT a TOY and only suitable for INDOOR use.

WARNING: Suitable for Ages 14 and up. This product may contain small parts which may pose as a choking hazard to children.

Please read this manual carefully before attempting to fly your Smart iCopter, and make sure you are always conscious of your own personal safety and the safety of others. Be conscious of your surroundings and environment when operating the Smart iCopter.

Do not operate or fly under following conditions

- In an area that has wind drafts. The Smart iCopter is **STRICTLY** for indoor flying only. Common household items such as Fan, Air Conditioner or Heater System may cause drift resulting in unstable flying conditions.
- If model feels hot due to overheated rotor motor from prolonged hours of flying.
- If model has been in contact with rain, moisture, or contaminants.
- In cold climate conditions - plastics are very susceptible to damage due to cold climates. Optimum operating temperature is between 20˚- 45˚C.
- If model has been in contact with fire or high heat - plastics and electronics components are very susceptible to damage or deformation due to heat.
- In crowded areas of the home. Avoid operating your model in the street where injury or damage can occur. Never operate the model out on the street or in populated areas for any reason.
- Near roads, railways, or power lines.
- If tired, sick, or under the influence of drugs or alcohol.
- If beginner or individual(s) planning to operate a borrowed helicopter unfamiliar with model or safety instructions.

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Safety Guidelines

Inspect All Parts

- Before each flight, check for damaged parts and verify all parts are operating normally with all functions in order. **Do not fly if blades are damaged.**
- Verify that there are no abnormalities that would adversely affect the flight of the helicopter.
- Verify battery on board helicopter and your iPod touch, iPhone or iPad to ensure that they have sufficient level of charge.
- Verify there is no introduction or exposure to water or moisture in any form.

During operation of helicopter

- Always be aware of your surroundings. **DO NOT ALLOW** Children to operate the Smart iCopter without Adult Supervision.
- Maintain safe distances from aircraft and rotating main/tail rotor blades. Recommended safe distance is 10 feet (3 meter).
- Always be conscious of your actions.
- Wear appropriate clothing that does not interfere with your iPod touch, iPhone or iPad or Smart iCopter.
- Never leave your model unattended. Carefully follow all directions and warnings.
- Maintain eye contact with your Smart iCopter during all aspects of operation.

Troubleshooting

General Issues

When I press the Ignition button, there is only a vibration but I can't fly my Smart iCopter.

- Press and hold Ignition button for 2-3 seconds and a sound will indicate there is Ignition.

There is Ignition but I still can't fly my Smart iCopter.

- Please ensure that the power button is turned on at your Smart iCopter. Please refer to page 10 to locate power On/ Off button.
- Please ensure that the Bluetooth icon is lighted up to indicate that your iPod touch, iPhone or iPad is paired with your Smart iCopter.

The Smart iCopter unit is trying to lift off but seems erratic and is having trouble lifting off.

- Please ensure that you are flying from a flat and hard surface as the sensors may have trouble detecting height and will cause your Smart iCopter to perform erratically.

Unable to connect Bluetooth.

- Please ensure that only **ONE** of your iPod touch, iPhone or iPad is connected to your Smart iCopter.
- Un-pair & delete profile on your iPod touch, iPhone or iPad Bluetooth connection in Settings > General > Bluetooth > Tap blue arrow icon > tap "Forget this Device" and re-pair.

The Smart iCopter seems to be drifting a lot or rotates without being controlled.

- Please re-calibrate your Smart iCopter by using the Trim function on the App. Dial the Trim button to the opposite side of the drift or rotation.

If you are flying 2 or more Smart iCopter in the same airspace, please pair one at a time.

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Troubleshooting

App Issues

My Smart iCopter App doesn't seem to be launching after I download it from the App Store.

- Delete the App completely from your iPod touch, iPhone or iPad and from your iTunes and re-download the App.

My Smart iCopter seems to be out of control or the controls are not responsive in the App.

- Please turn off your Smart iCopter and completely exit your App by double clicking your Home Button > click and hold Smart iCopter App till it jiggles > press the minus button > restart the App > turn on your Smart iCopter and play again.

If you recently restored the software on your iPod touch, iPhone or iPad, you will need to re-download your Smart iCopter App.

Battery Issues

The battery won't charge

- Please ensure that you correctly connected the charger to your Smart iCopter.
- If you are charging from your keyboard, please ensure it has a high-powered USB 2.0 port.

The battery loses charge fast.

- Please ensure that you give the battery a complete charge before use.
- Please ensure that you turn off the power on your Smart iCopter when not in use.

The Smart iCopter rotors are rotating erratically and the unit is attempting to lift off but unable to.

- Low in power, please recharge your Smart iCopter.

Disclaimer and Copyright Notice

This equipment complies with Part 15 of FCC RF Rules. Operation is subject to the following two conditions:

1) This device may not cause interference and 2) This device must accept any interference, including interference that may cause undesired operation of the device.

The d-Red, Smart iCopter™ and Easy-Fly™ word mark and logo are trademarks of d-Red™ Technologies Ltd., registered in Hong Kong, China and U.S. Patent Pending One Touch Control approach to flying.

Apple®, iPad®, iPhone®, iPod® and iPod touch® are trademarks of Apple Inc., registered in the U.S. and other countries.

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FCC Part 15 Compliance

1. "Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to
operate the product."
AND
2. "NOTE: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the
FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This
product generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions,
may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a
particular installation. If the product does cause harmful interference to radio or television reception, which can be determined by
turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Product replacement policy only covers normal wear and tear when the product is used as directed. Normal wear and tear does not include damage caused by crashes, collisions, or any use other than directed.

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